

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/885,829	06/20/2001	Kanji Minato	F-7029	4384	
7	7590 07/29/2003				
JORDAN AND HAMBURG LLP			EXAMINER		
122 East 42nd Street New York, NY 10168			VALENTI, A	NDREA M	
			ART UNIT	PAPER NUMBER	
			3643		
			DATE MAILED, 07/20/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No		Applicant(s)				
	09/885,829		MINATO ET AL.	\mathcal{H}				
Office Action	Examin r		Art Unit	$-//\Lambda$ Λ				
,		Andrea M. Valer	~4 :	3643				
The MAILING DATE	of this communication a				V			
Period for Reply								
A SHORTENED STATUTO THE MAILING DATE OF TO THE MAILING DATE OF THE MAILING DA	FHIS COMMUNICATION to under the provisions of 37 CFR ailing date of this communication. we is less than thirty (30) days, a re bove, the maximum statutory period tended period for reply will, by stati ter than three months after the mail	I. 1.136(a). In no event, how eply within the statutory mi bd will apply and will expire ute, cause the application	ever, may a reply be tin nimum of thirty (30) day SIX (6) MONTHS from to become ABANDONE	nely filed s will be considered timely. the mailing date of this communic D (35 U.S.C. § 133).	cation.			
1) Responsive to com	munication(s) filed on <u>0</u>	<u>1 May 2003</u> .						
2a) This action is FINA	L . 2b)⊠ ⁻	This action is non-f	inal.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4)⊠ Claim(s) <u>1-14</u> is/are	pending in the applicati	on.	•		ر زر			
4a) Of the above cla	im(s) is/are withdr	rawn from conside	ration.	/				
5) Claim(s) is/ar	e allowed.			/	4			
6)⊠ Claim(s) <u>1-14</u> is/are	rejected.			<i>,</i>				
7) Claim(s) is/are objected to.								
8) Claim(s) are								
Application Papers								
9)☐ The specification is o	bjected to by the Examir	ner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration	on is objected to by the f	Examiner.						
Priority under 35 U.S.C. §§ 1								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)⊠ All b)□ Some * c)□ None of:								
1.⊠ Certified copie	es of the priority docume	nts have been rec	eived.					
2. Certified copies of the priority documents have been received in Application No								
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is m	ade of a claim for dome	stic priority under 3	5 U.S.C. § 119(e	e) (to a provisional appli	cation).			
a) ☐ The translation of 15)☐ Acknowledgment is m	of the foreign language p nade of a claim for dome	• •						
Attachment(s)								
Notice of References Cited (PT 2) Notice of Draftsperson's Patent 3) Information Disclosure Statement	Drawing Review (PTO-948)	4)		/ (PTO-413) Paper No(s) Patent Application (PTO-152)				
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office A	Action Summary		Part of Paper No. 15				

Art Unit: 3643

DETAILED ACTION

The Final Rejection of claims 1-14 in paper no. 9 is withdrawn in view of the newly discovered reference(s) to U.S. Patent No. 4,798,723 and Soviet Union Patent SU1793878 to Dzhalilov et al. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 8, and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Soviet Union Patent SU1793878 to Dzhalilov et al.

Regarding Claim 1, 8, and 14, Dzhalilov et al teaches a method of controlling a seed disease by sterilizing seeds by at least one of a physical technique and by an effective microorganism which is antagonistic against a pathogen of a seed borne disease (Dzhalilov et al English abstract).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 3643

Claims 1-9 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Control of Phytopathogenic Prokaryotes By Cultural Management and Chemicals in view of Soviet Union Patent SU1793878 to Dzhalilov et al.

Regarding Claim 1, 2, 5, and 14, the article on Cultural Management teaches a method of controlling a seed disease by sterilizing seeds by at least one of a physical technique (Page 1 Section C, Seed Treatment and Table 2) and a chemical technique (Page 9, Section C, Seed Treatment); and by an effective microorganism which is antagonistic against a pathogen of a seed borne disease (Page 12 Section 6). Cultural Management is silent on the order in which the steps are conducted. However, Dzhalilov et al teaches a method of treating a seed by first physically treating the seed (i.e. pre-soaking in warm water) and then treating it with a microorganism. It would have been obvious to one of ordinary skill in the art to apply the method steps of Dzhalilov et al to the teachings of Cultural Management as a comprehensive and effective means of seed treatment for enhanced success.

Regarding Claim 6, the article on Cultural Management as modified discloses that the seeds to be treated are those, which have been contaminated with the pathogen of the seed born disease (Table 2).

Regarding Claim 7, the article on Cultural Management as modified discloses the treated seeds are those belonging to a family selected from the group Brassicaceae, Umbelliferae, Solanaceae, Cucurbitaceae, Compositae, Liliaceae, Chenopodiaceae, Leguminosae (Page 12 Section 6).

Art Unit: 3643

Regarding Claim 8, the article on Cultural Management as modified discloses the physical technique is a dry-heating treatment or warm-water treatment (Table 2).

Regarding Claim 9, the article on Cultural Management as modified discloses the chemical technique is a treatment selected from the group of soaking, powder-coating, and coating wherein all three treatments are performed using a synthetic agrochemical (Page 9 Section C, Seed Treatment).

Regarding Claims 3 and 4, the article on Cultural Management as modified teaches the use of Streptomycin as an antagonist for Xanthomonas, but is silent on genus Pantoea or genus Lecleria. However, it would have been obvious to one of ordinary skill in the art to modify the teachings of the article on Cultural Management since the modification is merely an application of an alternate equivalent bacterium selected for its improved prokaryotic protein synthesis.

Claims 10-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Control of Phytopathogenic Prokaryotes By Cultural Management and Chemicals as applied to claim 1 above, and further in view of U.S. Patent No.4,798,723 to Dart et al.

Regarding Claims 10-13, the article on the Cultural Management as modified teaches spraying, but is silent on other administering techniques for the treatment by an effective microorganisum. However, Dart et al teaches that the microorganism treatment applied to a seed through soaking in an aqueous dispersion of the effective microorganism, pelleting, film coating, water absorbing (Dart et al Col. 13 lines 1-60). It would have been obvious to one of ordinary skill in the art to modify the teachings of the

Art Unit: 3643

article on Cultural Management with the old and well-known microorganism applications

of Dart to optimize the seed treatment with a thorough and efficient application.

Response to Arguments

Applicant's arguments with respect to claims 1-14 have been considered but are

moot in view of the new ground(s) of rejection.

Examiner maintains that applicant's broad claim language does not distinguish

over the teachings of the prior art. Examiner maintains that the antibiotics taught by

Cultural Management teach that the antibiotic microbes are antagonists for other

microbes and are in fact an effective microorganism.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Andrea M. Valenti whose telephone number is 703-305-

3010. The examiner can normally be reached on 7:30am-5pm M-F; Alternating Fridays

Off. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Peter M. Poon can be reached on 703-308-2574. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-306-4195

for regular communications and 703-305-0285 for After Final communications. Any

inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-4357.

AMV

SUPERVISORY OF A EXAMINER

Vit Por

Page 5

TECHNOLOGY CENTER 3600